Name:

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Geometry, Period

Due Date: Wed, 10 Sep 2014

**Geometry**

**Homework**



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| **PARALLEL PRACTICE** | | |
| 1) What is the slope of a line parallel to | 2) Write an equation for a line parallel to and travels through the point (5, -2) | |
| 3) Determine whether the two lines are parallel | | |
| 4) Find the value of *k* so that the lines through the given points are parallel. | | |
| a) Line 1: (-4, -2) and (0, 0)  Line 2: (2, 7) and (*k*, 5) | | a) Line 1: (-1, 9) and (-6, -6)  Line 2: (7, *k*) and (0, -2) |
| 5) **Challenge:** Find the slope and y-intecept of the graph of the equation Ax + By = C where B0. Use your results to find the slope and y-intercept of the graph of 3x + 2y = 18. | | |
| **PERPENDICULAR PRACTICE** | | |
| 1. Write the negative reciprocal for each of the following 2. 4 \_\_\_\_\_\_\_\_\_\_\_ 3. 7 \_\_\_\_\_\_\_\_\_\_\_ 4. \_\_\_\_\_\_\_\_\_\_\_ 5. \_\_\_\_\_\_\_\_\_\_\_ | 2) Write an equation of a line perpendicular to | |
| 3) Write an equation in slope – intercept form of a line passing through the point  (–2, –4) and **perpendicular** to . | 4) Determine which of the following equations are parallel or perpendicular to one another. Clearly label your answers and provide solid reasoning for your choice.  Line A: 3*y* – 2*x* = 12  Line B: *y* = –6*x* + 44  Line C: 3*y* = 2*x* – 13  Line D: 2*y* = –3*x* + 37 | |
| 5) Write an equation in slope-intercept form that passes through point (–8, 2) and is perpendicular to the slop of -1/5 | 6) Write an equation in slope – intercept form of the line that passes through  (–1, 2) and is **perpendicular** to the line y = -3x + 4? | |